

WESCAM MX-15 (AN AAQ-35)



Date Revised: 24 DEC 03

VENDOR DESCRIPTION

The WESCAM MX-15 (AN AAQ-35) provides the same ultra-high stabilization and image resolution of the industry standard MX-20 in a highly compact size for UAV operations. The MX-15 can be configured in dual, tri, quad, penta and hexa sensor configurations and features a Litton 200 IMU mounted to the optical bench for precision geo-locating and targeting. The MX-15's large aperture/high-resolution optics and less than 10 micro-radian stabilization enable precision long-range stand-off target recognition and identification with the ability to laser designate in the Quad Sensor configuration. Image processing, multi-state auto tracking and integrated moving map option provide tactical functionality. The baseline Tri-Sensor configuration includes a 640x480 InSb FLIR, 3CCD Color Zoom Camera and 950mm color CCD spotter camera.



Product Manager Robotic & Unmanned Sensors

Telephone: (732) 427-5827 / DSN 987

Fax: (732) 427-5072 / DSN 987

e-mail: SFAE-IEWS-NV-RUS@IEWS.monmouth.army.mil



Business Category: Large Business

EOIRLD

Hardware		Gimbal
RF Frequency: N/A	Operating Temp.: -55°C to +55°C	Height: 18.5" Weight: 42.6 kg
Power: 280W nom./560W max.	Storage Temp.: -55°C to +71°C	Stabilization: < 10 micro radians
Weight: 42.6 kg or 94 lbs	Interface: RS-232/422, AIRINC 429, 1553B	Pointing Accuracy: 10 meters < 10 km
Dimensions: 394mm dia x 470mm high	Bandwidth Required: N/A	Angular Speed: 0-60°/sec
Internal Volume: 2 ft ³	TCDL Compatibility: Yes	Azimuth Coverage: 360°
Cooling: Ambient air	MTBF: > 1500 hrs	Elevation Coverage: +90°-120°
LOS Stabilization: < 10 micro radians	MTTR: .5 hrs	Slew Rate Azimuth: 0-60°/sec
Auto Video Tracker: Yes	Maintainability: 2-level BIT to LRM level	Slew Rate Elev. Coverage: 0-60°/sec
Operating Altitude: 0 ft to 46k ft MSL	Pd: 90% @ 30km	TLE: < 10 meters
Operating Speed: 0 knots to 405 knots	Pr: 90% @ 15km	ATC or ATR or ATI: N/A

Electro-Optical (EO)	Infrared (IR)	Laser Designator
Type: Zoom and Spotter – 3CCD	Type: InSb / Staring Array	Pulse Characteristics: Pulse duration 17 ±5ns
Resolution: 800 lines both	Resolution: 640x480	Pulse Energy: 100 mj
Range: N/A	Range: 3-5 <0.030 km NETD	Range: < 8 km
Angular Coverage: N/A	Angular Coverage: N/A	Angular Coverage: N/A
Zoom Rate: N/A	Cooling Method: Stirling cycle cooler	Cooling Method: Dry heat exchanger
Modes of Operation: N/A	Modes of Operation: N/A	Modes of Operation: Q-switch up to 20Hz NATO Codes Band I & II
Target Size: APC	Target Size: APC 4 FOV	Beam Divergence: 0.25 Mrad, 0.22 avg.
Field of View: 17.3-1.17 Zoom/.29x.22 Spotter	HWFOV: 31.7	Wavelength: 1.064 ± 0.002um NdYag
Sensitivity: Monochrome Zoom 4.9 lux, Color Zoom 10 lux, Monochrome Spotter 95 lux	HMFOV: 6.5	TLE: 10m at 10km
Color or B/W: Color/Both	HNFOV: 1.3 HVNFOV .43	